

Appl. No. 10/646,149
Amdt. dated May 2, 2006
Reply to Office Action of February 2, 2006

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (previously presented) A controlled display system comprising:
a video display;
a video controller coupled to said video display and being responsive to an input;
a remote unit;
a pointing device, mounted on said remote unit, said pointing device being capable of generating a signal corresponding to motion by an operator on said pointing device in two directions and providing said signal corresponding to said motion to said input, wherein said motion by an operator on said pointing device correlates with a cursor movement in said video display, said two directions including a first direction and a second direction;
said video controller being configured to display a menu, and to select among items on said menu in response to a signal generated which corresponds to motion by the operator on said pointing device in the first direction, and to select an aspect of a selected menu item in response to a signal generated which corresponds to motion by the operator on said pointing device in the second direction.
2. (original) The system of claim 1 wherein motion in said first direction indicates function, and motion in said second direction indicates value.
3. (original) The system of claim 2 wherein deactivation of said pointing device selects a value for a selected function.
4. (original) The system of claim 1 further comprising:
a pointing surface on said pointing device;
means, connected to said pointing surface, for detecting contact with said pointing surface and, responsive thereto, sending an activation signal to said video controller; and

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said video controller being configured to display said menu in response to said activation signal.

5. (original) The system of claim 1 wherein said pointing device is a touchpad.

6. (original) The system of claim 5 further comprising means for detecting a tap on said touchpad, and sending an additional control signal in response to said tap.

7. (original) The system of claim 1 wherein said menu items include volume and channel.

8. (original) The system of claim 1 wherein:
said menu items are vertically arranged on said display; and
selection of a menu item activates a horizontal display corresponding to values of the selected menu item.

9. (original) The system of claim 1 wherein said pointing device is mounted in a remote control unit, and further comprising:

a wireless transmitter mounted in said remote control unit; and
a wireless receiver coupled to said video controller.

10. (previously presented) A remote control and display system comprising:
a video monitor including
a video display;
a video controller coupled to said video display and being responsive to an input; and
a wireless receiver coupled to said video controller;
a remote control unit including
a pointing device, capable of generating a signal corresponding to motion by an operator on said pointing device in two directions and providing said signal corresponding to said motion to said input, said two directions including a first direction

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and a second direction, wherein said motion by an operator on said pointing device correlates with a cursor movement in said video display; and
a wireless transmitter mounted in said remote control unit;
said video controller being configured to display a menu, and to select among functions on said menu in response to a signal generated which corresponds to motion by the operator in the first direction, and to select a value of a selected function in response to a signal generated which corresponds to motion by the operator in the second direction, wherein said motion in the first direction is a movement by the operator on said pointing device and said motion in the second direction is another movement by the operator on said pointing device.

11. (previously presented) A remote control and display system comprising:
a video monitor including
a video display;
a video controller coupled to said video display and being responsive to an input; and
a wireless receiver coupled to said video controller;
a remote control unit including
a touchpad, capable of generating a signal corresponding to motion by an operator relative to said pointing device in two directions and providing said signal corresponding to said motion to said input, said two directions including a substantially vertical direction and a substantially horizontal direction, wherein said motion by an operator relative to said touchpad correlates with a cursor movement in said video display; and
a wireless transmitter mounted in said remote control unit;
said video controller being configured to display a menu, and to
select among functions on said menu in response to a user input to said touchpad in the substantially vertical direction, causing a horizontal value display for a selected function to be activated,

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and to move an indicator horizontally along said horizontal value display in response to a user input to said touchpad in the substantially horizontal direction, and to select a currently indicated value upon termination of contact with said touchpad by a user.

12. (previously presented) The system of claim 1, wherein the motion by the operator on the pointing device includes motion by the operator relative to a pointing surface of the pointing device.

13. (previously presented) The system of claim 1, wherein the motion by the operator on the pointing device comprises sliding motion on the pointing device.

14. (previously presented) The system of claim 10, wherein the motion by the operator on the pointing device includes motion by the operator relative to a pointing surface of the pointing device.

15. (previously presented) The system of claim 10, wherein the motion by the operator on the pointing device comprises sliding motion on the pointing device.

16. (new) A method for operating a remote control unit to control a video display, comprising:

pushing a button on said remote control unit with a finger to send a first command to display an overlay on said video display;

moving said remote control to send second commands to indicate one of a function and value on said overlay;

lifting said finger from said button to send a third command to select one of said function and value on said overlay.

17. (new) The method of claim 16 wherein said overlay is a menu.

18. (new) The method of claim 16 wherein said overlay is volume.

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19. (new) The method of claim 16 wherein said overlay is channel.
20. (new) A remote control unit to control a video display, comprising:
a button on said remote control unit;
a transmitter, configured to transmit a first command in response to pressing said button, said first signal causing an overlay to be displayed on said video display;
detection circuitry for sensing movement of said remote control unit, said transmitter sending a second command in response to said movement to indicate one of a function and value on said overlay; and
said transmitter being further configured to send a third command when a finger is lifted from said button to select one of said function and value on said overlay.
21. (new) The remote control unit of claim 20 wherein said overlay is a menu.
22. (new) The remote control unit of claim 20 wherein said overlay is volume.
23. (new) The remote control unit of claim 20 wherein said overlay is channel.